

Out of Manitoba Comes the first man-made plant

The first man-made grain has been developed by scientists at the University of Manitoba and it may be one of the most significant breakthroughs of the twentieth century. Triticale (pronounced trit-i-cay'lee) is the first crop species ever deliberately created by man and it holds a tremendous new hope for the hungry people of the world. The strange new plant produces a giant grain-heavy head at least twice as large as an ordinary head of wheat and the grain is super rich in protein. It is a cross between rye and wheat and has the ability to reproduce its giant self generation after generation. Large scale testing is just beginning but results have been most promising yield wise. Last year yields ran as high as 55 bushels per acre in southwestern Manitoba where yields of normal wheat were 40.

Plant breeding scientists has to struggle over a long and often discouraging trail in their efforts to find an improved grain. They knew that common bread wheat was born in Asia Minor something like 10,000 years ago when a primitive, grasslike wheat crossbred with a type of goat grass through an accident of nature. Such natural crossbreedings nearly always produce a sterile plant, but through some unknown force of nature this one allowed the genetic elements in the new grain to arrange themselves in such a way that the plant could produce fertile seed. The result was wheat. Originating a new species has taken nature a million year or more, but scientists kept thinking—how can we re-evolve wheat and give it better ancestors?

They felt the rye might make an ancestor far better than goat grass, and many years ago plant breeders began work on cross breeding the two grains. Sometimes they got them to mate, but the plant always produced sterile seed. The problem was that wheat has 14 chromosomes in its sex cells and rye only 7, and when brought together they strung out as 21 chromosomes. Without pairs to divide the wheat-rye plant couldn't produce sex cells to reproduce itself.

In 1937 botanists discovered a drug that could cause a plant to double its genetic machinery inside the cell. It was tried on the wheat-rye plant and worked.

With this large barrier overcome, scientists around the world began experimenting anew with the rye-wheat crossbreeding, but results were discouraging.... they failed to come up with a healthy plant, and work on the project was almost abandoned.

In 1953 two wealthy young Canadians, Edgar and Charles Bronfman who had grown up on the plains of Manitoba got interested. From a small start their father had worked his way from the farm to hotel ownership and then into the distilling business which he built into the vast Seagrams empire and a family fortune of over 3 million. In 1953 the two Bronfman boys decided to use some of this fortune to memorialize their maternal grandfather, Samuel Rosner who had died in the fall of 1952. The result was the establishment of the Rosner Chair in Agronomy at the University of Manitoba.

Leonard Shebeski who was head of the plant science department thought the Rosner chair should undertake some research into helping the food shortage and work on Triticale was begun at the University, under veteran plant breeder John N. Welsh, and after his death in 1964, Dr. Edward Larter. The weak spots in earlier strains were gradually weeded out till the huge-headed new Triticale was developed. As yet the University has only a few lines of Triticale ready for large-scale field tests, but already the new grain's potential in fighting hunger is being explored by the Rockefeller Foundation's Agricultural Service in countries including India, Egypt, Chile and others. The extra protein will play an important role. An Asian child could not eat enough rice, for instance, to take in the needed amount of protein for a growing person.

At the University of Manitoba research goes on in another exciting direction. The possibility of a perennial grain—a wheat that would grow each year without seeding. There is still a long way to go on this project. But by 1970 the University hopes to have at least one variety of Triticale ready for commercial distribution to farmers.

This summer millions of people will see the new grain at Expo in the "Man the Provider" area. It may be the most remarkable of all the amazing things to see at "Man and his World" Expo.



A fat, whiskered head of Triticale grain makes the head of common wheat at left seem puny by comparison.

Take a one-day sea voyage Leave cares behind

Photos and Story by
Eric D. Sismey

You may not recognize the flag fluttering from the staff over the stern of that large freighter moving slowly along Alberni Inlet not a hundred yards from where you are fishing close to Long Tree Point. You may not be able to read her name for it may be in Greek letters or Japanese characters.

Big Freighters, about one a day, come to Port Alberni to load lumber and plywood, pulp and paper for ports around the world.

A smaller cargo ship, Scottish built, Mv. Lady Rose, makes turn-around trips, alternately, to Bamfield or Ucluelet five days a week.

There are a few opportunities left now to take day-long salt water voyages be-

cause trucks and cars and planes have taken their jobs away. There is only one left on all the B. C. Coast, that one is along Alberni Inlet, through Barkley Sound to points where the open Pacific touches our western shore.

During the summer tourists from as far as Los Angeles and San Francisco visit the Albernis especially to make this round-trip cruise extensively written up in California periodicals. Too few Canadians, east of

the mountains are aware of this salt sea excursion and for those who have never seen the open ocean either of these trips will remain as a long remembered day as well as an interlude in a yee salmon fishing holiday.

Every morning, Monday through Friday, the 200 ton Clyde built motorship Lady Rose drops her lines promptly at 8:00 o'clock for an all day, round trip cruise to Bamfield of Ucluelet.

The Lady Rose, owned jointly by Captain R. McMinn and Captain E. Monruffet, is

Cont. on Page 2

TAKE A ONE-DAY Cont. from Pge. 1

essentially a cargo carrier, she will nose ashore wherever there is freight to deliver or passengers to land.

It is always interesting to board the ship early, not because here 100 passenger accommodation is crowded but because it is almost educational to watch cargo of every sort lowered and stowed in her yawning hold.

For a trifle, six dollars to be exact, round trip passengers enjoy unrivalled scenery along Alberni Inlet, through the Islands of Barkley Sound and to out-of-the-way camps and settlements, some at the end of restricted roads, others reached only by sea or air.

Moments after leaving Port Alberni the sight and sound of industry is left behind and the forested hills bordering the narrow inlet appear much the same as they did in 1791 when early explorers were there.

During the day long voyage, except for the hour or so ashore at Bamfield or

Ucluelet, you may, perhaps for the first time, enjoy complete relaxation while lolling in a deck-chair enjoying the sun, scenery, the sea air and conversation with fellow trippers.

It takes about an hour to reach Nahmint Bay where the Lady Rose is often way laid by a power cruiser from a sport fishing resort. Usually two or three large tye salmon are stretched across her fore deck, purposely, no doubt, to excite round trippers.

The first regular stop on the Bamfield run is Kildonan on picture-book Uchuckleset Inlet. Twenty years ago Kildonan was a busy place but after pilchard disappeared in 1946, the B.C. Packer's Plant was shut down, the machinery salvaged and when the buildings began to tumble they were burned. Now that blackberry bushes hide the scars of man's occupation the inlet has recovered much of its pristine beauty. There is a logging camp tucked behind Cheeyah Island and a number of retired people have chosen

waterfront property for year round living.

Soon after leaving Kildonan the Lady Rose enters Barkley Sound named by Captain Charles William Barkley in 1791. His wife, Frances, was the first white woman to land anywhere on our northwest coast.

During the cruise through Trevor Channel, the shipping route between Port Alberni and the open Pacific

it is well to visit the snack bar so that the hour at Bamfield can be spent ashore. Our ship berths in Bamfield Inlet opposite a large brick building where the Pacific cables to Australia terminate. Until a few years ago a large operating staff attended the clattering equipment for 24 hours a day. Now that the buildings house only repeaters in the circuits to Vancouver the buildings are



Mv. Lady Rose in Bamfield Inlet.

deserted except for a small maintenance crew.

Two general stores at Bamfield will excite landlubbers for on tables, on shelves and in bins are the things that fishermen buy;

slickers, so'westers and rubber boots, hooks and line spoons, plugs and gaudy wiggly coho lures called "hoochy-coochies".

Cont. on Pge. 3



Approaching Ucluelet, Ucluelet Inlet, aboard the Lady Rose.

FARMERS and CONTRACTORS

if you get a charge out of this ad you should try our battery service

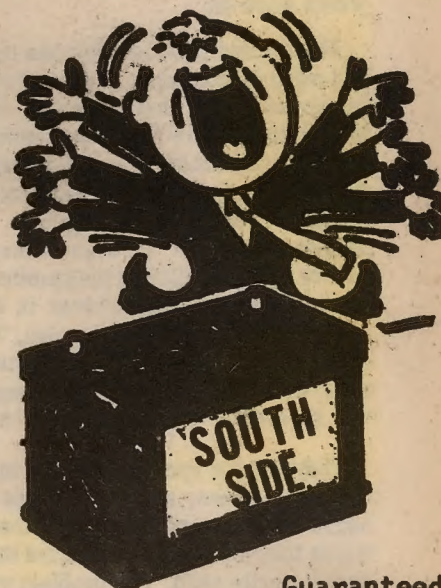
Scrap
Batteries
Accepted

Res. Phone.
474-2679

Ask About Our
Spring Special

South Side
Battery Shop

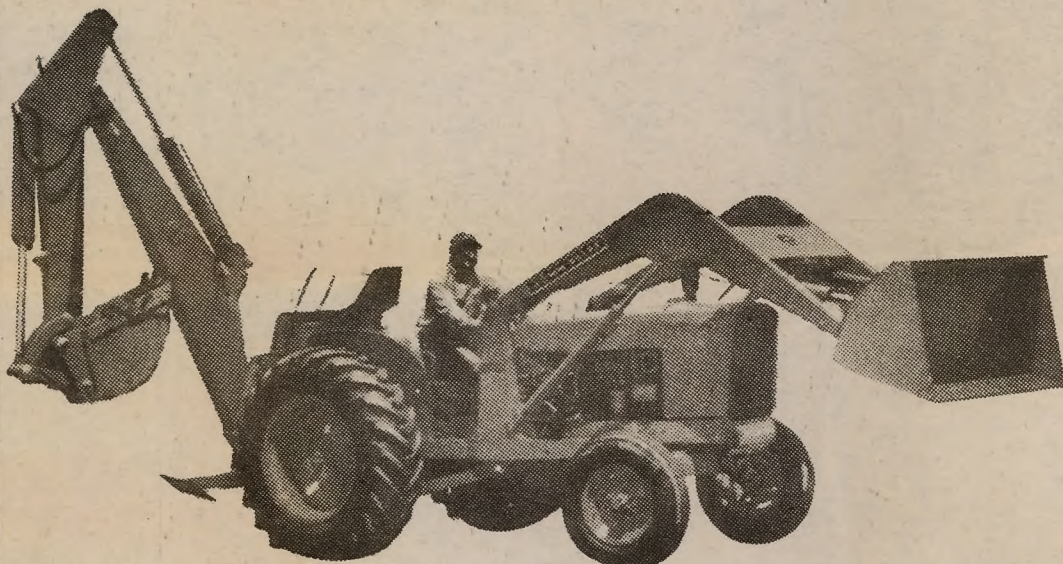
6 Volt & 12 Volt (Fully Reconditioned)
USED (RECONDITIONED) & REPAIRS + 434-5472
TOM SAWYER, PROP 10356-71 AVE. EDMONTON



Guaranteed
Best Prices.

All Work Fully
Guaranteed

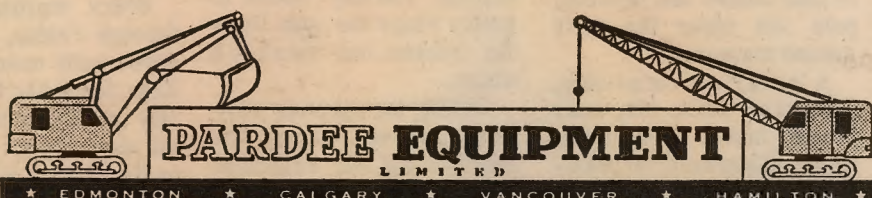
special low prices



WHEEL LOADER HOES FROM PARDEE

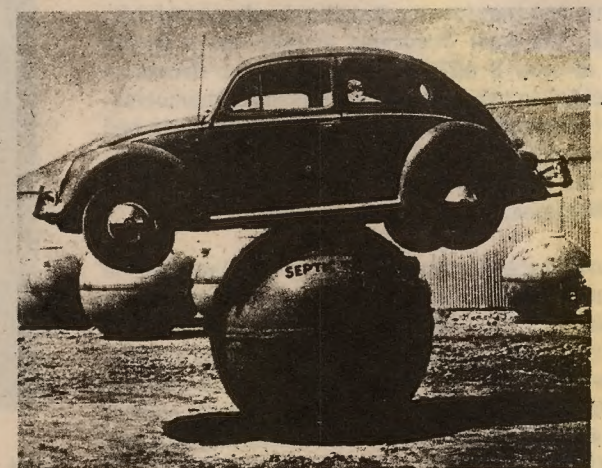
Look over this outstanding supply of top quality, good condition used loader hoes now available at Pardee Equipment Ltd. You'll find just the right one for you at a price you didn't think possible for this type of unit. Come in today and deal!

1958—440 Gas No. 444721, 71 Ldr. No. 738, 50 Hoe No. 50346	\$4,000
1958—440 No. 440925, 71 Ldr. No. 924, Case Hoe No. 4023836	\$3,750
1958—50 MH No. GH509553, 185 Hoe	\$3,750
1958—Massey Harris Model 202 Ldr. Hoe No. 302297, Ldr. No. 27149, Hoe No. 1251	\$4,500
1957—Case 320 No. 6088422	\$3,500
1962—MM 600 No. 18400028, front end loader, Hoe No. 2140003	\$5,200
1961—Ford Super Major No. 1585160, Hoe	\$4,900



4410 - 103 STREET, EDMONTON, TELEPHONE 434-1421

Don't Be Up in the Air Satelite Tanks Are The Strongest



A Size And Type For Every Need

- Will never corrode like concrete or steel
- Fiberglass is completely immune to all forms of septic tank corrosion
- Exclusive spherical shape. The strongest possible structure
- Exclusive internal design gives 3 times the efficiency of normal tanks
- Completely guaranteed

For free information write to

CENTURY FIBREGLASS LTD.
4235-16th Stret, S.E., Calgary, Alberta

Name:

Address:



B. C. Packer's float at Bamfield. Trevor Channel Barkley Sound may be seen in the middle distance.

TAKE A ONE-DAY Cont. from Pge. 2

Bamfield is the home of one of the two west coast lifeboat stations where the orderly buildings and well clipped lawns seem out of place against a backdrop of primeval forest. The B.C. Packer's float where fisher men land their catch for packing and shipping is an interesting place to visit. Bamfield is also the home port of a number of off-shore trollers; for others a convenient fuel station where supplies may be bought and the catch sold. It is a haven, too, when the weather outside goes wild.

The trip to Ucluelet is slightly longer. It threads through the jumble of islands in the Broken group before crossing the head of Loudon Channel. When the Lady Rose reaches Newcombe Channel she pitches easily to swells that have rolled across the Pacific and surf creams over the rocky guardians to Ucluelet Inlet. From the shelter of Frances Island it is two or three miles to Ucluelet. The two sides of the narrow channel offer a study in contrasts. At the rambling Indian village, on the right, fiber glass runabouts with large outboard engines are beached beside native dug-outs, and some of these carry outboard engines too.

In Ucluelet, on the left, home of about 1000, the old is mixed with the new. An old style general store is near the wharf while further up the hill are new self-service stores. Settlement began in the early 1880's. Most of the early pioneers

were attracted by reports of fine gold in the beach sand at Wreck, now Florencia Bay.

Some \$20,000. is said to have been recovered over a period of several years. And

while storms have washed away all trace of the old workings the search goes on.

Fishing is Ucluelet's primary industry, it is not only the home port of a large west coast trolling fleet, but a center where every kind of marine service is available.

A stroll along the floats where trollers home from the sea are tied, one against another, offers opportunity to examine the complexity of trolling gear and to engage in worthwhile conversation with men who wrest a living from the sea.

Return trips from both Bamfield and Ucluelet are the reverse of the outbound course. Passages, islands and bordering hills, when seen from the opposite direction are as fresh as the promise of tomorrow.

Along the busy seaway trollers, with poles out stretched, fish for salmon, deep sea tugs tow log-laden barges towards Port Alberni and ocean freighters sail to reach the Pacific before the sun sinks below the rim of the world.

Too soon the tall stacks of Alberni industry appear to signal the end of adventure as the Lady Rose threads her way through sport fishing boats off-shore from Lone Tree Point. In a few minutes at the wharf again, round trippers will take leave of genial Captain McMinn and his crew who have made the voyage a delight, to step ashore thoroughly relaxed, a bit wind burned perhaps, and in time for an early dinner.

BACK AGAIN

When it comes time for Klondike Days, the 1,970 miles between Detroit, Mich and Edmonton are nothing.

Take this from Miss Kathryn Bowman of Detroit and Miss Helen Van Gallow, of nearby Draeborn, Mich. Miss Gallow is a retired school teacher and Miss Bowman is assistant principal of a 1,200 pupil school for Negro children in Detroit.

They came to Klondike Days, 1966, compiled a huge scrapbook of K-Days events and decided to come back again this year for the entire nine days. They have collected more ammunition for an even bigger scrapbook this year.

FROM THE BIG COUNTRY...

Alberta



THE BIG FLAVOUR...

Labatt's 'Blue'

Burning Rectal Itch Relieved In Minutes

Exclusive Healing Substance
Relieves Pain As It
Shrinks Hemorrhoids.

If you want satisfactory relief from 'Itching Piles'—here's good news. A renowned research laboratory has found a unique healing substance that promptly relieves the burning itch and pain—actually shrinks hemorrhoids. This substance has been shown to produce a most effective rate of healing. Its germ-killing properties also help prevent infection.

In case after case "very striking improvement" was noted, even among cases of long standing. And this improvement was maintained over a period of months!

This was accomplished by a new healing substance (Bio-Dyne)—which quickly helps heal injured cells and stimulate growth of new tissue. Now Bio-Dyne is offered in ointment and suppository form called Preparation "H". Ask for it at all drug stores—satisfaction or money refunded.

The increasing popularity of Alberta's rugged mountain playground illustrates the great things brewing for Alberta's tourist industry. Also brewing here, is Labatt's Pilsener, the great light beer most westerners call BLUE. Labatt's 'Blue' has the big, man-sized flavour. It's master-brewed, so it's always smooth... always satisfying.



LABATT'S ALBERTA BREWERY, EDMONTON, ALBERTA

Salute your Centennial!
See the new Provincial Museum and Archives now
located in Edmonton's Government House.

BETTER DRIVER

Are you a teen-ager? Are you a teen-age driver? Are you a good driver? Do you want to be a better driver? Your mental health has a lot to do with it, and that's why the Mental Health Association offers you, free, a helpful pamphlet entitled "How to Be A Better Teen-Age Driver." Write to the Canadian Mental Health Association, 619 Revillon Building, Edmonton.

Climate of the French Riviera did not gain international fame until the 19th century. Wealthy Englishmen escaping from fog and Russian noblemen fleeing blizzards were the first to arrive. Today the Riviera welcomes all classes in all seasons.

* * *

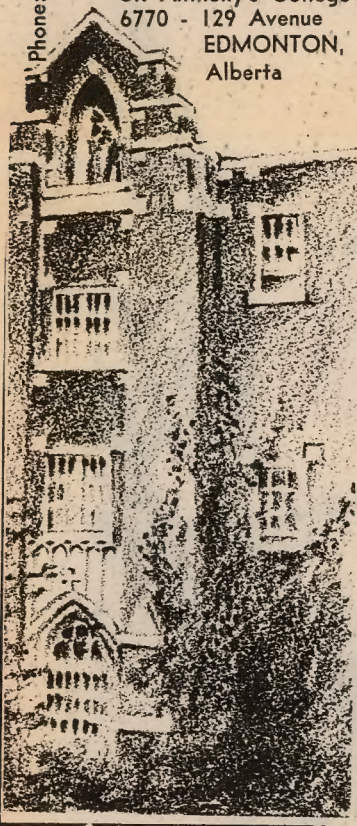
Reptiles eat little in relation to their body weight. They get most of the heat they need from outside their bodies—by basking in the sun, for instance.

* * *

Caroline Islanders in the Pacific Ocean do a lively business in the giant clamshells sought now by many shell and curio collectors.

St. Anthony's College

Residence for high school boys
Operated by the Franciscans of Western Canada.
Classes at O'Leary High School.
Supervised study periods.
Athletics, guidance, etc.
Contact:
The Registrar
St. Anthony's College
6770 - 129 Avenue
EDMONTON,
Alberta



Off-shore salmon trollers at Ucluelet. The long poles, four on the larger vessels, are dropped as outriggers when trolling. Some trollers will fish eight lines with as many as a dozen lures on each line.



Trolling gear. Lines are raised and lowered mechanically. Spools of stainless steel lines are seen in the photograph. They are raised by a device called a "gurdy" which is geared to the main shaft and there is a bell on the pole which rings when a fish is hooked.

SOMETHING NEW IN SEPTIC TANKS

Century Fiberglass Ltd., Calgary, presents Satellite septic tanks, cesspools and cisterns, molded from lifetime fiber, reinforced, non-corrosive polyester plastic resin.

The tanks have high strength and are light in weight. They will never corrode. A new non-trickle overflow automatic syphon eliminates winter freezing and the tank's anticipated life is 50 years.

Satellite Septic Tanks consist of a sphere containing baffles and compartments to most efficiently treat all incoming sewage. This is done by routing the sewage

in a circle around the inside of the tank giving it a greater distance of travel than conventional tanks. The baffles hold back solids until the bacteria has decomposed them into a liquid. The treated sewage then overflows to the second compartment where it is discharged to the field by an automatic syphon or sewage pump.

The Satellite Cesspool is designed to be used as a sewage container only. This is required in some areas where for reasons of water pollution or other health regulations the effluent cannot be put into the ground. The cesspool holds the sewage till it can be pumped out and trucked away.

Cisterns are made from the same durable materials as the septic tanks. They may be buried underground beside the house with a filler attachment pipe to the surface. The lid is hinged and gasketed with a locking device to prevent children from getting into them.

These cisterns can be used as fuel storage tanks and as containers for acids and chemicals in industrial applications. Cisterns up to 900 gallons have spherical shells, larger than this they have spherical ends.

For commercial and industrial applications septic tanks and cisterns are available up to 5,000 gallons. Century Fiberglass will be happy to assist in determining the size and style required for application at no extra cost or obligation.

ing the size and style required for application at no extra cost or obligation.

FOR SALE

2 only 600 IHC Diesel Tractors..each \$2000

One only - 930 Case Tractor, Cab, Turbo, Weights, large tires. Used 380 hrs...\$7500.

One only - 1963 Case 830\$3500.

One only John Deere 4020 complete.....\$6000.

New Mower 7 ft. cut...\$ 500.

New Bar Rakes\$ 500.

Tractor Cabs\$ 600.

2 Only New Balers\$1750.

New Plows 5/16 bottom\$1200.

24 ft. Field Cultivators\$1500.

Stony Farm Equipment & Supply Co. Ltd.

CASE
● Tractors
● Implements
● Combines
● Sales & Service
● Complete Repairs
● Used Machinery
Ph. 489-1386
484-4995
15830 111 Ave.

PUT want ads TO WORK FOR YOU

Classifieds really sell

Copy for classified advertising should be mailed to Western Week, 12 Piron Street, St. Albert, Alberta. Rates are 15¢ per word for one insertion or 10¢ per word for three or more consecutive insertions. Allow 75¢ per line extra if large bold headline and/or signature line is desired. Copy must be in ten days in advance of publication.

PARADE FLOAT BOOK, Send 50¢ for 26 pages, illustration, designs, price list kits and materials to build floats. Festival Supply Co., Melita, Manitoba.

FOR SALE
7 K.W. - 110 volt Lister diesel power plant. Good condition. Used only two years. Contact Arthur Gibbs at Box 1073 Barrhead.

ANTIQUES WANTED
Antiques and items of historical interest are wanted. Documents, Silver and China, Pioneer, Indian and Eskimo relics. Write to C.C. Bashford 736-17th Ave. S.W. Calgary, Alberta. 237c.

FOR SALE: Half section, north of Athabasca, 160 acres broken, very level, 10 acres alder, well, good pasture with dugout, buildings, adjoining half available. Toby Jensen, Box 608, Athabasca. 31P

Though Chicago is called the "Windy City," New York and San Francisco are actually windier.

Earthquakes in the United States have claimed only 1,500 persons since settlement. Almost half the victims perished in the 1906 San Francisco disaster.

DOES YOUR CISTERN LEAK
Send inside measurements for price guaranteed waterproof liner. Write A. M. Thompson, Box 456, Melita, Manitoba.

AUCTION SCHOOLS-LEARN AUCTIONEERING - TERM
Soon, Free Catalogue, REISCH AUCTION COLLEGE, Mason City 38, Iowa, U.S.A.

FOR THE BEST SELECTION OF FARMS in Central Alberta
Call John Low Agencies Ltd., Ponoka, Alta. Phone 783-3538

DENTAL LABS
Burton Dental Lab, Certified Dental Mechanics - 10279 - 101 St., Edmonton, Alberta.

20 MACHINES SCRAPPED USED CATERPILLAR PARTS AVAILABLE.

If you need used parts for the following:

CRAWLERS:
D 8 H's
D 8's - 14A, 2 U's
D 7's - 9 U
D 4's - 7 U

MOTOR GRADERS:
#12 - 8 T series
ENGINES:
D 337, D 13,000, D 318
ATTACHMENTS:
Dozers, Control Units

Save Cash At
UNION TRACTOR LTD.
Edmonton, Phone 434-6421
BRANCHES - Calgary, Red Deer, Grande Prairie and Grimshaw.

FOR SALE
Half section, north of Athabasca, 160 acres broken, very level, 10 acres alder, well, good pasture with dugout, buildings, adjoining half available. TOBY JENSEN, Box 608 Athabasca.

WANTED



CONSTABLES

TO SERVE EDMONTON
CANADA'S FASTEST GROWING CITY

CONDITIONS OF SERVICE: Constables' Salary Rates \$5663-\$6681 per annum; pay while training; Forty Hour Five day Week, alternating shifts; Pension Plan; Group Insurance and Sickness benefits.

NECESSARY QUALIFICATIONS: Age 20-29, 5' 9" or over; not less than 150 pounds, Grade X, equivalent or higher, Canadian or British subject; excellent character and first class physical condition.

If you can meet these requirements and wish to embark on an interesting career offering lifetime security in which you may serve the public under excellent working conditions, apply to:

THE CHIEF CONSTABLE
CITY OF EDMONTON POLICE DEPARTMENT
EDMONTON, ALBERTA

Next Basic Training Class Commences 11th September, 1967

THE HEAD HUNTERS (DIESEL HEADS) LTD.

5610 - 103A ST., EDMONTON
PHONE 434-1407 TELEX 037-2249

CYLINDER HEADS - ALL TYPES: Repaired and Exchanged

MOTOR BLOCKS: All Types Repaired

MACHINE SHOP SERVICE: General Machining, Cylinder Blocks - Re-boring, Slewing, Surface Grinding, Align Boring, Rod Sizing and Pin Fitting.

CRANKSHAFT GRINDING: bearing Supply, Piston and Sleeve Assemblies.

FINAL DRIVE HUBS: Repaired and Exchanged.

THE HEAD HUNTERS

THE OLDEST AND MOST EXPERIENCED FIRM
IN THE CASTING REPAIR FIELD